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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/913,578	11/06/2001	Yair Oren	20568-68741	4183
46363	7590 11/29/2005		EXAMINER	
PATTERSON & SHERIDAN, LLP/ LUCENT TECHNOLOGIES, INC			WANG, QU	AN ZHEN
	BURY AVENUE		ART UNIT	PAPER NUMBER
SHREWSBURY, NJ 07702			2633	

DATE MAILED: 11/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	y 2					
	Application No.	Applicant(s)				
	09/913,578	OREN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Quan-Zhen Wang	2633				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 1.136(a). In no event, however, may a reply of will apply and will expire SIX (6) MONTHS ute, cause the application to become ABANI	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 21	September 2005.					
2a) This action is FINAL . 2b) ⊠ Th						
3) Since this application is in condition for allow	ance except for formal matters	, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-16 and 21-25</u> is/are pending in th	e application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16 and 21-25</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	/or election requirement.					
Application Papers						
9) The specification is objected to by the Exami	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ ad	ccepted or b) objected to by	the Examiner.				
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre						
11) The oath or declaration is objected to by the	Examiner. Note the attached O	ffice Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	gn priority under 35 U.S.C. § 11	9(a)-(d) or (f).				
1. Certified copies of the priority docume	nts have been received.					
2. Certified copies of the priority docume	nts have been received in Appl	ication No				
3. Copies of the certified copies of the pr	•	ceived in this National Stage				
application from the International Bure						
* See the attached detailed Office action for a li	st of the certified copies not rec	eived.				
Attachmont/ol						
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) 🔲 Interview Sum	mary (PTO-413)				
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/M	ail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	5) Notice of Information (6) Other:	mal Patent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claim 1, 6, 9, 12-16, and 21-25 is rejected under 35 U.S.C. 102(e) as being anticipated by Izumi (U.S. Patent US 6,466,348 B1).

Regarding claims 1 and 9, Izumi teaches a node (fig. 21) for processing upstream optical signal and downstream optical signal in a fiber optic communication network (fig. 1C), the node comprising: a first optical block (fig. 21, combination of elements 325, 315, 360, and 340, and related elements) adapted to receive control information included within upstream optical signal (fig. 21, supervisory signal from transmission line 301) at a first frequency and transmit control information within upstream optical signal (fig. 21, supervisory signal to transmission line 302) at the first frequency, and an add-drop module (fig. 21, ADM 360) to drop optical signals from the upstream optical signal and add optical signal to the upstream optical signal; a second optical block (fig. 21, combination of elements 326, 316, 391, and 341, and related elements) adapted to receive control information included within downstream optical

signal (fig. 21, the supervisory signal from transmission line 304) at a first frequency and

transmit control information within downstream optical (fig. 21, the supervisory signal to

transmission line 303) signal at the first frequency, and an add-drop module (fig. 21,

ADM 391) to drop optical signals from the downstream optical signal and add optical

signal to the downstream optical signal; and a control device (fig. 21, monitoring and

controlling signal transmitting and receiving circuit 315 and 316), for processing control

information received by each of the first and second optical block and providing within a

second information of each of the first and second optical block control information

adapted for use by another node (column 18, lines 11-54). Izumi further discloses an

example of a structure of a monitor and controlling apparatus (fig. 7), which can be used

for both the first and second optical block, comprising a first device (fig. 7, O/E converter

183) for converting a first optical signal at a first frequency carried by the network into a

first electrical signal, a second device (fig. 7, combination of element 185, 186, and 187)

for demodulating from the first electrical signal first information modulated on the first

optical signal; a third device (fig. 7, combination of elements 188, 189, 190) for

modulating on a second electrical signal second information, a fourth device (fig. 7, E/O

converter 184) for converting the second information modulated on the second electrical

signal into a second optical signal at the first frequency.

Regarding claims 6, and 21-24, Izumi further teaches that a fiber optic network (fig. 1C) including the node (fig. 1C, node 118B) of claim 1 and further including a second node (fig. 1C, node 118C), the second node including a first device for converting a first optical signal at a first frequency (SV signal) carried by the network

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into a first electrical signal, the second node further including a second device for demodulating first information from the first electrical signal modulated on the first optical signal, the second node further including a third device for modulating second information on a second electrical signal, and the second node further including a fourth device for converting the second information modulated on the second electrical signal into a second optical signal at the first frequency (column 18, lines 11-54).

Regarding claim 12, Izumi further teaches a network includes a closed loop optical fiber, one of the first-mentioned nodes and at least one of the second nodes coupled to the closed loop optical fiber (fig. 1C).

Regarding claims 13, Izumi further teaches a network includes two closed loop optical fibers for carrying the first optical signal in opposite directions, each node being coupled to both optical fibers (fig. 1C).

Regarding claim 14, Izumi further teaches that the two closed loop optical fiber also carry the third optical signal in the two opposite directions (fig. 3).

Regarding claims 15-16, Izumi further teaches that the fiber optic network includes a closed loop optical fiber, one of the first-mentioned nodes and at least one of the second nodes coupled to the closed optical fiber (fig. 1C).

Regarding claim 25, Izumi discloses a node (fig. 21) for processing east-west optical signal (fig. 21, signal from transmission line 301 to transmission line 302) and west-east optical signal (fig. 21, signal from 304 to 303) in a fiber optical communication network (fig. 1C), the node comprising: a first optical block (fig. 21, combination of elements 325, 315, 360, and 340, and related elements) adapted to receive control

information included within upstream east-west optical signal (fig. 21, supervisory signal from transmission line 301) at a first frequency and transmit control information within downstream east-west optical signal (fig. 21, supervisory signal to transmission line 302) at the first frequency; a second optical block (fig. 21, combination of elements 326, 316, 391, and 341, and related elements) adapted to receive control information included within upstream west-east optical signal (fig. 21, the supervisory signal from transmission line 304) at a first frequency and transmit control information within downstream east-west optical (fig. 21, the supervisory signal to transmission line 303) signal at the first frequency; and a control device (fig. 21, monitoring and controlling signal transmitting and receiving circuit 315 and 316), for processing control information received by each of the first and second optical block and providing within a second information of each of the first and second optical block control information adapted for use by another node (column 18, lines 11-54).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-5, 7-8, and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Izumi (U.S. Patent US 6,466,348 B1) and in view of Darcie (U.S. Patent US 4,701,904).

Regarding claims 2-5, 7-8, and 10-11, Izumi further discloses to drop and add optical signals at more different wavelengths (figs. 4-6). The system of Izumi differs from the claimed invention in that Izumi does not specifically teach the specific optical-to-electrical conversion devices, signal demodulation device for optical receivers and signal modulation devices and electrical-to-optical conversion devices for optical transmitters. However, the specific configurations of optical receivers and transmitters are well known in the art. For example, Darcie discloses exemplary optical receiver (fig. 6) and optical transmitter (fig. 3). Therefore, it would have been obvious for one of ordinary skill in the art at the time when the invention was made to incorporate the optical receivers and transmitters disclosed by Darcie into the system of Izumi in order to extract information from a dropping optical signal and provide information to an adding optical signal at a node in the network.

Response to Arguments

- 5. Applicant's arguments with respect to claims 1-16, and 21-24 have been considered but are most in view of the new ground(s) of rejection.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quan-Zhen Wang whose telephone number is (571) 272-3114. The examiner can normally be reached on 9:00 AM 5:00 PM, Monday Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

qzw 11/15/2005 M. R. SEDIGHIAN PRIMARY EXAMINER